

AMENDMENTS TO THE DRAWINGS

The attached sheets of drawings include changes to Fig. 3a and 3b. These sheets replace the original sheets including Figures 3a and 3b. In Figures 3a and 3b, sequence identifier numbers have been added (underlining in sequences and titles should remain underlined).

Attachment: Replacement sheets (6)
Annotated Sheet Showing Changes (6)

REMARKS

After entry of this amendment, claims 1-26 are pending. The claims as filed reflect the English translation of claims submitted under PCT Article 34. The claims have been amended without prejudice to remove the multiple dependencies and to better comply with U.S. practice. Support is found *inter alia* in the original claims. No new matter has been added.

Pages 45, 46 and 48 of the specification and Figures 3a and 3b have been amended to include sequence identifiers corresponding to the sequences in the Sequence Listing to comply with 37 CFR § 1.821(a) and (d). Further, sequences recited in the specification and in Figures 3a and b have been included in the Sequence Listing. Applicants respectfully submit herewith a replacement paper copy of the "Sequence Listing" which conforms to 37 CFR §§ 1.821-1.825, a diskette of the "Sequence Listing" in Computer Readable Form, along with a Statement to Support Filing and Submission in Accordance with 37 CFR § 1.821 through 1.825. No new matter has been added to the Sequence Listing. Entry of this Sequence Listing into the application is requested.

Applicants have attached a Fee Transmittal form with this application. However, if any additional fee is due, please charge our Deposit Account No. 03-2775, under Order No. 13111-00035-US from which the undersigned is authorized to draw.

Respectfully submitted,

By 

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
S	N	R	L	D	G	K	V	A	I	V	T	G	G	T	L	G	I	G	L	A	I	A	T	K	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	
F	V	E	E	G	A	K	V	M	I	T	G	R	H	S	D	V	G	E	K	A	A	(K)	S	V	
																					K	(A)			
51	52	53	54	55	56	57	58	59	60																
G	T	P	D	Q	I	Q	F	F	/																
		T						V	/																
								G	/																
								N	/																

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Fig. 3B

1. Tryptic liquid digestion Fr. 34 UP Mono P 31279/170**Tr.-Sp.-RP Fr. 4 (SEQ ID NO: 16)**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
T	P	L	V	D	D	L	P	G	A	E	E	A	M	S	Q	R	(R)	/	/
S	V	G	T	P	E	Q	I	Q	F	F	Q	H	D	R					
F	A	T		S	I	F	V	K				Y	T						
						A		P											

Tr.-Sp.-RP Fr. 6 (SEQ ID NO: 17)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
S	V	E	E	T	T	T	A	E	(W)	R	/	/	/	/

Tr.-Sp.-RP Fr. 18 (SEQ ID NO: 18)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
S	V	G	T	P	D	Q	J	Q	F	F	Q	H	D	S	S	D	E	D	G

Tr.-Sp.-RP Fr. 4 (3/4 of filter) (SEQ ID NO: 19)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<u>V</u>	<u>N</u>	<u>I</u>	<u>V</u>	<u>H</u>	<u>P</u>	<u>G</u>	<u>Y</u>	<u>J</u>	<u>K</u>	/	/	/	/	/
L	F	D	A	T	E	K	/	/	/	/	/	/	/	/

Tr.-Sp.-RP Fr. 4 (1/4 of filter) (SEQ ID NO: 20)

1	2	3	4
<u>V</u>	<u>N</u>	<u>I</u>	<u>V</u>
L	F	D	A

Tr.-RP Fr. 3 (SEQ ID NO: 21)

1	2	3	4	5	6	7
<u>A</u>	<u>E</u>	<u>I</u>	<u>P</u>	<u>G</u>	<u>K</u>	<u>R</u>
V	M		Q	Y		N
I						
L,S						

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Tr.-Sp.-RP Fr. 8 (SEQ ID NO: 22)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
(S)	A	A	L	D	/	A	L	K	/	/	/	/	/	/

Tr.-Sp.-RP Fr. 23 (SEQ ID NO: 23)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<u>S</u>	<u>A</u>	<u>A</u>	<u>L</u>	<u>D</u>	/	<u>A</u>	<u>L</u>	<u>K</u>	<u>D</u>	<u>Y</u>	/	<u>V</u>	<u>R</u>	/	/	/	/
F	(A)	T	G	S	E	F	V	V	(D)	G	G	Y	T	A	Q	/	/

Tr.-Sp.-RP Fr. 14 (SEQ ID NO: 24)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<u>S</u>	<u>A</u>	<u>A</u>	<u>L</u>	<u>D</u>	/	<u>A</u>	<u>L</u>	<u>K</u>	/	/	/	/	/	/	/	/

Tr.-Sp.-RP Fr. 31 (SEQ ID NO: 25)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
K	L	L	A	V	N	L	D	G	V	F	F	G	T	R	/	/	/	/	/

Tr.-Sp.-RP Fr. 2 (SEQ ID NO: 26)

1	2	3	4	5	6
/	M	/	T	G	R

Tr.-Sp.-RP Fr. 27 (SEQ ID NO: 27)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<u>I</u>	<u>K</u>	<u>I</u>	<u>P</u>	<u>M</u>	<u>G</u>	<u>H</u>	<u>I</u>	/	<u>E</u>	<u>P</u>	<u>N</u>	/	<u>I</u>	<u>A</u>
S	A	A	L	D	G	A	L	K	D	Y	D	V	R	/
F	A	T	G	S	E	F	V	V	D	G	G	Y	T	A

Tr.-Sp.-RP Fr. 28 (SEQ ID NO: 28)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<u>I</u>	<u>K</u>	<u>I</u>	<u>P</u>	<u>M</u>	<u>G</u>	?	<u>I</u>	(A)	<u>E</u>	(P)	(N)	(D)	<u>I</u>	<u>A</u>	Y	/	/	/	/
F	A	T	G	S	E	F	V	V	D	G	G	Y	T	A	Q				
S	A	A	L	D	(C)	A	L	K	D	Y	D	V	R	/					

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2. V8 liquid digestion Fr.34 UP Mono P 31279/170**V8-RP Fr. 30 (SEQ ID NO: 29)**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
K	A	A	K	S	V	G	T	P	D	Q	I	Q	F	F	Q	H	D	S	S	P	E	(V)	(V)	(Q)
T	G	L	F	L		V	L	R	V	A	T	V		P	G	Y	I	K	A	T		A	N	
Q				R			V		N	E								D						

V8-RP Fr. 19 (SEQ ID NO: 30)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
/	<u>V</u>	<u>K</u>	<u>L</u>	<u>L</u>	<u>A</u>	<u>V</u>	<u>N</u>	<u>L</u>	/	/	/	/	/	/	/	/	/	/	/
	K			A				I											
	R							D											

V8-RP Fr. 18 (SEQ ID NO: 31)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<u>T/G</u>	<u>V</u>	<u>F</u>	<u>F</u>	<u>(G)</u>	<u>L</u>	<u>K</u>	<u>Q</u>	<u>N</u>	<u>I</u>	<u>E</u>	<u>N</u>	<u>I</u>	<u>N</u>	<u>I/N</u>	<u>A</u>	<u>A</u>	<u>V</u>	<u>R</u>	<u>(P)</u>
V		V	N	T	V	H	P	G	Y	I	K	T	P	L	M	D	D	D	
											D				G			L	
															V				

V8-RP Fr. 22 (SEQ ID NO: 32)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<u>G</u>	<u>F</u>	<u>V</u>	<u>G</u>	<u>D</u>	<u>P</u>	<u>S</u>	<u>L</u>	<u>G</u>	<u>A</u>	<u>Y</u>	<u>N</u>	<u>A</u>	<u>G</u>	<u>K</u>	<u>G</u>	<u>A</u>	<u>V</u>	<u>R</u>	<u>I</u>
Q	V	L		A	Q	N	M	K	N	G	G	L	S	A	M	I	K	N	M
T	S			I	Y	R	A		K	K	A	V	R	I	S				A
P						K													
21	22	23	24	25	26	27	28	29	30										
<u>M</u>	<u>S</u>	<u>K</u>	<u>S</u>	<u>A</u>	<u>A</u>	<u>L</u>	<u>(D)</u>	/	/										

V8-RP Fr. 4 (SEQ ID NO: 33)

1	2	3	4	5	6	7	8	9	10
F	V	V	D	/	/	/	/	/	/

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V8-RP Fr. 26 (SEQ ID NO: 34)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<u>D</u>	<u>G</u>	/	<u>I</u>	<u>K</u>	<u>L</u>	<u>E</u>	<u>D</u>	<u>A</u>	<u>I</u>	<u>E</u>	<u>(E)</u>	/	/	/	/	/	/	/	/
R	K	(L)	K	D	A		E	D											
	Y	(F)		P															

V8-RP Fr. 7 (C terminus) (SEQ ID NO: 35)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
F	V	V	D	G	G	Y	T	A	Q	/	/	/	/

V8-RP Fr. 28 (SEQ ID NO: 36)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
/	<u>A</u>	<u>L</u>	<u>K</u>	<u>D</u>	<u>Y</u>	<u>D</u>	<u>V</u>	<u>R</u>	<u>V</u>	<u>N</u>	<u>I</u>	<u>V</u>	<u>H</u>	<u>P</u>	<u>G</u>	<u>Y</u>	<u>I</u>	<u>K</u>	<u>I</u>
S																			
21	22	23	24	25	26	27	28	29	30										
<u>P</u>	<u>L</u>	<u>V</u>	<u>(V)</u>	<u>D</u>	<u>L</u>	<u>P</u>	<u>G</u>	<u>A</u>	<u>E</u>										
			D						(G)										

V8-RP Fr. 9 (SEQ ID NO: 37)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
K	A	A	K	S	V	G	T	P	D	Q	I	Q	F	F

V8-RP Fr. 2 (SEQ ID NO: 38)

1	2	3	4	5	6	7	8	9	10	11	12	13
G	A	K	V	M	I	T	G	R	H	S	D	V

V8-RP Fr. 12 (SEQ ID NO: 39)

1	2	3	4	5	6	7	8	9	10
<u>S</u>	<u>K</u>	<u>E</u>	<u>A</u>	<u>I</u>	<u>G</u>	<u>S</u>	<u>E</u>	<u>E</u>	<u>V</u>
A		G		F	V	Y	L		
				I					

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V8-RP Fr. 21 (SEQ ID NO: 40)

[illegible]

V8-RP Fr. 41 (SEQ ID NO: 41)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
W	/	K	L	L	A	V	N	L	D	G	V	F	F	G	T	R	L	G	I
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Q	R	M	K	N	K	G	L	G	A	S	I	I	N	M	(S)	(S)	(I)	/	/

V8-RP Fr. 43 (SEQ ID NO: 42)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<u>(A)</u>	<u>M</u>	<u>S</u>	<u>Q</u>	<u>R</u>	<u>T</u>	<u>K</u>	<u>T</u>	<u>P</u>	<u>M</u>	<u>G</u>	<u>H</u>	<u>I</u>	<u>(G)</u>	<u>E</u>	<u>P</u>	<u>N</u>	<u>D</u>	<u>I</u>	<u>A</u>
		K	L	L	A	V	N	L	D	G	V	F	F	G	T	R	L	G	I
		A	K	S	V	G			A	Q	I	A							
			E							Y	N	Q							
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
<u>Y</u>				<u>Y</u>		<u>A</u>													
Q	R	M	K	N	K	G	L	G	A	S	I	I	N	M	S				G

V8-RP Fr. 11 (SEQ ID NO: 43)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
S	K	F	A	T	G	S	E	F	V	V	/	/	/	/

V8-RP Fr. 15 (SEQ ID NO: 44)

[illegible]